

Appendix I

DID LIST

For ingredients that are included in the part-A of DID list, the values for toxicity and degradability in the list must be used for the assessment of compliance with the ecological criteria.

For ingredients that are not in the part-A of DID list, the procedure described in the part-B shall be used for establishing toxicity and degradability values.

Detergents Ingredients Database

Version January 2007

Part A. List of ingredients.

DID-no	Ingredient name		Acute toxicity			Chronic toxicity			Degradation		
			LC50/EC50	SF(acute)	TF(acute)	NOEC (*)	SF (chronic) (*)	TF (chronic)	DF	Aerobic	Anaerobic
	Anionic surfactants										
1	Linear alkyl benzene sulphonates 11,5 - 11,8 (LAS)		4,1	1000	0,0041	0,69	10	0,069	0,05	R	N
2	LAS (C10-13 alkyl) triethanolamine salt		4,2	1000	0,0042	3,4	100	0,034	0,05	R	O
3	C 14/17 Alkyl sulphonate		6,7	5000	0,00134	0,44	10	0,044	0,05	R	N
4	C 8/10 Alkyl sulphate		132	5000	0,0264			0,0264	0,05	R	Y

5	C 12/14 Alkyl sulphate (AS)		2,8	1000	0,0028	2	100	0,02	0,05	R	Y
6	C 12/18 Alkyl sulphate (AS) (#)				0,0149			0,027	0,05	R	Y
7	C 16/18 Fatty alcohol sulphate (FAS)		27	1000	0,027	1,7	50	0,034	0,05	R	Y
8	C 12/15 A 1-3 EO sulphate		4,6	1000	0,0046	0,1	10	0,01	0,05	R	Y
9	C 16/18 A 3-4 EO sulphate		0,57	10000	0,000057			0,000057	0,05	R	Y
10	Dialkyl sulpho succinate		15,7	1000	0,0157			0,0157	0,5	I	N
11	C 12/14 Sulpho- fatty acid methylester		9	10000	0,0009	0,23	50	0,0046	0,05	R	N
12	C 16/18 Sulpho- fatty acid methylester		0,51	5000	0,000102	0,2	50	0,004	0,05	R	N
13	C 14/16 alfa Olefin sulphonate		3,3	10000	0,00033			0,00033	0,05	R	N
14	C 14/18 alfa Olefin sulphonate		0,5	5000	0,0001			0,0001	0,05	R	N
15	Soap C>12-22		22	1000	0,022	10	100	0,1	0,05	R	Y
16	Lauroyl Sarcosinate		56	10000	0,0056			0,0056	0,05	R	Y
17	C9/11 2-10 EO Carboxymethylated, sodium salt or acid		100	10000	0,01			0,01	0,05	R	O
18	C12/18 2-10 EO Carboxymethylated, sodium salt or acid		8,8	8,8	1000	0,0088	5	100	0,05	0,05	R
19	C 12/18 Alkyl phosphate esters		38	38	1000	0,038			0,038	0,05	R

Non-ionic surfactants

20	C8 A 1-5 EO		7,8	1000	0,0078			0,0078	0,05	R	Y
21	C 9/11 A, >3-6 EO predominantly linear		5,6	1000	0,0056			0,0056	0,05	R	Y

22	C 9/11 A, >6-10 EO predominantly linear		5	1000	0,005			0,005	0,05	R	Y
23	C 9/11 A, 5-11 EO multibranched		1	1000	0,001			0,001	0,05	R	O
24	C10 A, 5-11 EO multibr.(Trimer-propen-oxo-alcohol)		10	1000	0,01			0,01	0,05	R	Y
25	C 12/15 A, 2-6 EO predominantly linear		0,43	1000	0,00043	0,18	50	0,0036	0,05	R	Y
26	C12/14 5-8 EO 1 t-BuO (endcapped)		0,23	1000	0,00023	0,18	100	0,0018	0,05	R	O
27	C 12/15 A, 3-12 EO multibranched		1	1000	0,001	3,2	100	0,032	0,05	R	O
28	C 12/15 (mean value C<14) A, >6-9 EO		0,63	1000	0,00063	0,24	10	0,024	0,05	R	Y
29	C 12/15 (mean value C>14) A, >6-9 EO		0,4	1000	0,0004	0,17	10	0,017	0,05	R	Y
30	C 12/15 A, >9-12 EO		1,1	1000	0,0011			0,017	0,05	R	Y
31	C 12/15 A >12-20 EO		0,7	1000	0,0007			0,0007	0,05	R	O
32	C 12/15 A >20-30 EO		13	1000	0,013	10	100	0,1	0,05	R	O
33	C 12/15 A, >30 EO		130	1000	0,13			0,13	0,5	I	O
34	C 12/18 A, 0-3 EO		0,3	1000	0,0003			0,0003	0,05	R	Y
35	C 12/18 A, 5-10 EO		1	1000	0,001	0,35	100	0,0035	0,05	R	O
36	C 12/18 A, >10-20 EO		1	1000	0,001			0,0035	0,05	R	O
37	C 16/18 A, 2-8 EO		3,2	1000	0,0032	0,4	100	0,004	0,05	R	Y
38	C 16/18 A, >9-18 EO		0,72	1000	0,00072	0,32	10	0,032	0,05	R	Y
39	C 16/18 A, 20-30 EO		4,1	1000	0,0041			0,0041	0,05	R	Y
40	C 16/18 A, >30 EO		30	1000	0,03			0,03	0,5	I	Y

41	C12-15 A 2-6 EO 2-6 PO		0,78	1000	0,00078	0,36	100	0,0036	0,05	R	O
42	C10-16 A 0-3 PO 6-7 EO		3,2	5000	0,00064	1	100	0,01	0,05	R	O
43	Glycerin (1-5 EO) cocoate		16	1000	0,016	6,3	100	0,063	0,05	R	Y
44	Glycerin (6-17 EO) cocoate		100	1000	0,1			0,1	0,05	R	Y
45	C 12/14 Glucose amide		13	1000	0,013	4,3	50	0,086	0,05	R	Y
46	C 16/18 Glucose amide		1	1000	0,001	0,33	50	0,0066	0,05	R	Y
47	C 8/10 Alkyl polyglycoside		28	1000	0,028	5,7	100	0,057	0,05	R	Y
48	C8/12 Alkyl polyglycoside, branched		480	1000	0,48	100	100	1	0,05	R	N
49	C 8/16 or C12-14 Alkyl polyglycoside		5,3	1000	0,0053	1	10	0,1	0,05	R	Y
50	Coconut fatty acid monoethanolamide		9,5	1000	0,0095	1	100	0,01	0,05	R	Y
51	Coconut fatty acid monoethanolamide 4-5 EO		17	10000	0,0017			0,0017	0,05	R	Y
52	Coconut fatty acid diethanolamide		2	1000	0,002	0,3	100	0,003	0,05	R	O
53	PEG-4 Rapeseed amide		7	1000	0,007			0,007	0,05	R	Y

Amphoteric surfactants

60	C12/15 Alkyl dimethylbetaine		1,7	1000	0,0017	0,1	100	0,001	0,05	R	O
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61	Alkyl C12/18 amidopropylbetaine		1,8	1000	0,0018	0,09	100	0,0009	0,05	R	Y
62	C12/18 Alkyl amine oxide		0,3	1000	0,0003			0,0003	0,05	R	Y

Cationic surfactants

70	Alkyl trimethyl ammonium salts		0,1	1000	0,0001	0,046	100	0,00046	0,5	I	O
71	Alkyl ester ammonium salts		2,9	1000	0,0029	1	10	0,1	0,05	R	Y

Preservatives

80	1,2-Benzisothiazol-3-one		0,15	1000	0,00015			0,00015	0,5	I	N
81	Benzyl alcohol		360	1000	0,36			0,36	0,05	R	Y
82	5-bromo-5-nitro-1,3-dioxane		0,4	5000	0,00008			0,00008	1	P	O
83	2-bromo-2-nitropropane-1,3-diol		0,78	1000	0,00078	0,2	100	0,002	0,5	I	O
84	Chloroacetamide		55,6	10000	0,00556			0,00556	1	O	O
85	Diazolidinylurea		35	5000	0,007			0,007	1	P	O
86	Formaldehyde		2	1000	0,002			0,002	0,05	R	O
87	Glutaraldehyde		0,31	1000	0,00031			0,00031	0,05	R	O
88	Guanidine, hexamethylene-, homopolymer		0,18	1000	0,00018	0,024	100	0,00024	1	P	O
89	CMI + MIT in mixture 3:1 (§)		0,0067	1000	0,0000067	0,0057	50	0,000114	0,5	I	O

90	2-Methyl-2H-isothiazol-3-one (MIT)		0,06	1000	0,00006			0,00006	0,5	I	O
91	Methyldibromoglutaronitrile		0,15	1000	0,00015			0,00015	0,05	R	O
92	e-phtaloimidoperoxyhexanoic acid		0,59	5000	0,000118			0,000118	1	P	O
93	Methyl-, Ethyl- and Propylparaben		15,4	5000	0,00308			0,00308	0,05	R	N
94	o-Phenylphenol		0,92	1000	0,00092			0,00092	0,05	R	O
95	Sodium benzoate		128	1000	0,128			0,128	0,05	R	Y
96	Sodium hydroxy methyl glycinate		36,5	5000	0,0073			0,0073	1	O	O
97	Sodium Nitrite		87	10000	0,0087			0,0087	1	NA	NA
98	Triclosan		0,0014	1000	0,0000014	0,00069	10	0,000069	0,5	I	O
99	Phenoxy-ethanol		344	1000	0,344	200	100	2	0,05	R	O

Other ingredients

110	Silicon		250	1000	0,25			0,25	1	P	N
111	Paraffin		1000	10000	0,1			0,1	1	P	O
112	Glycerol		4400	5000	0,88			0,88	0,05	R	Y
113	Phosphate, as STPP		1000	1000	1			1	0,15	NA	NA
114	Zeolite (Insoluble Inorganic)		1000	1000	1	175	50	3,5	1	NA	NA
115	Citrate and citric acid		825	1000	0,825	80	50	1,6	0,05	R	Y

116	Polycarboxylates		200	1000	0,2	106	10	10,6	1	P	N
117	Nitrilotriacetat (NTA)		494	1000	0,494	64	50	1,28	0,05	R	O
118	EDTA		121	1000	0,121	22	50	0,44	0,5	I	N
119	Phosphonates		650	1000	0,65	25	50	0,5	1	P	N
120	EDDS		320	1000	0,32	32	50	0,64	0,05	R	N
121	Clay (Insoluble Inorganic)		1000	1000	1			1	1	NA	NA
122	Carbonates		250	1000	0,25			0,25	0,15	NA	NA
123	Fatty acids C _{>=14}		3,7	5000	0,00074			0,00074	0,05	R	Y
124	Silicates		250	1000	0,25			0,25	1	NA	NA
125	Polyasparaginic acid, Na-salt		410	1000	0,41			0,41	0,05	R	N
126	Perborates (as Boron)		14	1000	0,014			0,014	1	NA	NA
127	Percarbonate (See carbonate)		250	1000	0,25			0,25	0,15	NA	NA
128	Tetraacetylenediamine (TAED)		250	1000	0,25	500	100	5	0,05	R	O
129	C1-C4 alcohols		1000	1000	1			1	0,05	R	Y
130	Mono-, di- and triethanol amine		90	1000	0,09	0,78	100	0,0078	0,05	R	Y
131	Polyvinylpyrrolidon (PVP)		1000	1000	1			1	0,5	I	N
132	Carboxymethylcellulose (CMC)		250	5000	0,05			0,05	0,5	I	N
133	Sodium and magnesium sulphate		1000	1000	1	100	100	1	1	NA	NA
134	Calcium- and sodiumchloride		1000	1000	1	100	100	1	1	NA	NA

135	Urea		1000	5000	0,2			0,2	1	NA	NA
136	Silicon dioxide, quartz (Insoluble inorganic)		1000	1000	1			1	1	NA	NA
137	Polyethylene glycol, MW>4000		1000	10000	0,1			0,1	1	P	N
138	Polyethylene glycol, MW<4000		1000	10000	0,1			0,1	0,05	R	O
139	Cumene sulphonates		450	1000	0,45			0,45	0,5	I	N
140	Na-/Mg-/KOH		30	1000	0,03			0,03	0,05	NA	NA
141	Enzymes/proteins		25	5000	0,005			0,005	0,05	R	Y
142	Perfume, if not other specified (**)		2	1000	0,002			0,002	0,5	I	N
143	Dyes, if not other specified (**)		10	1000	0,01			0,01	1	P	N
144	Starch		100	1000	0,1			0,1	0,05	R	Y
145	Anionic polyester		655	1000	0,655			0,655	1	P	N
146	PVNO/PVPI		530	1000	0,53			0,53	1	P	N
147	Zn Ftalocyanin sulphonate		0,2	1000	0,0002	0,16	100	0,0016	1	P	N
148	Iminodisuccinat		81	1000	0,081	17	100	0,17	0,05	R	N
149	FWA 1		11	1000	0,011	10	100	0,1	1	P	N
150	FWA 5		10	1000	0,01	1	10	0,1	1	P	N
151	1-decanol		2,3	5000	0,00046			0,00046	0,05	R	O
152	Methyl laurate		1360	10000	0,136			0,136	0,05	R	O
153	Formic acid (Ca salt)		100	1000	0,1			0,1	0,05	R	Y

154	Adipic acid		31	1000	0,031			0,031	0,05	R	O
155	Maleic acid		106	1000	0,106			0,106	0,05	R	Y
156	Malic acid		106	1000	0,106			0,106	0,05	R	O
157	Tartaric acid		200	10000	0,02			0,02	0,05	R	O
158	Phosphoric acid		138	1000	0,138			0,138	0,15	NA	NA
159	Oxalic acid		128	5000	0,0256			0,0256	0,05	R	O
160	Acetic acid		30	1000	0,03			0,03	0,05	R	Y
161	Lactic acid		130	1000	0,13			0,13	0,05	R	Y
162	Sulphamic acid		75	1000	0,075			0,075	1	NA	NA
163	Salicylic acid		46	1000	0,046			0,046	0,15	R	O
164	Glycollic acid		141	5000	0,0282			0,0282	0,05	R	O
165	Glutaric acid		208	5000	0,0416			0,0416	0,05	R	O
166	Malonic acid		95	5000	0,019			0,019	0,05	R	O
167	Ethylene glycol		6500	1000	6,5			6,5	0,05	R	Y
168	Ethylene glycol monobutyl ether		747	5000	0,1494			0,1494	0,05	R	O
169	Diethylene glycol		4400	10000	0,44			0,44	0,05	R	Y
170	Diethylene glycol monomethyl ether		500	1000	0,5			0,5	0,15	R	O
171	Diethylene glycol monoethyl ether		3940	5000	0,788			0,788	0,05	R	O
172	Diethylene glycol monobutyl ether		1254	1000	1,254			1,254	0,05	R	O

173	Diethylene glycol dimethylether		2000	10000	0,2			0,2	0,5	I	O
174	Propylene glycol		32000	1000	32			32	0,15	R	Y
175	Propylene glycol monomethyl ether		12700	5000	2,54			2,54	0,05	R	O
176	Propylene glycol monobutylether		748	5000	0,1496			0,1496	0,05	R	O
177	Dipropylene glycol		1625	10000	0,1625			0,1625	0,05	R	O
178	Dipropylene glycol monomethyl ether		1919	5000	0,3838			0,3838	0,05	R	O
179	Dipropylene glycol monobutylether		841	5000	0,1682			0,1682	0,05	R	O
180	Dipropylene glycol dimethylether		1000	5000	0,2			0,2	0,5	I	O
181	Triethylene glycol		4400	1000	4,4			4,4	0,5	I	O
182	Tall oil		1,8	1000	0,0018			0,0018	0,5	I	O
183	Ethylenebissstearamides		140	5000	0,028			0,028	0,5	I	O
184	Sodium gluconate		10000	10000	1			1	0,05	R	O
185	Glycol distearate		100	5000	0,02			0,02	0,05	R	Y
186	Hydroxyl ethyl cellulose		209	5000	0,0418			0,0418	1	P	O
187	Hydroxy propyl methyl cellulose		188	5000	0,0376			0,0376	1	P	O
188	1-methyl-2-pyrrolidone		500	1000	0,5			0,5	0,05	R	O
189	Xanthan gum		490	1000	0,49			0,49	0,05	R	O
190	Trimethyl Pentanediol mono-isobutyrate		18	1000	0,018	3,3	100	0,033	0,05	R	O
191	Benzotriazole		29	1000	0,029			0,029	1	P	O

192	Piperidinol-propanetricarboxylate salt		100	1000	0,1	120	100	1,2	0,5	I	O
193	Diethylaminopropyl-DAS		120	1000	0,12	120	100	1,2	1	P	O
194	Methylbenzamide-DAS		120	1000	0,12	120	100	1,2	0,5	I	O
195	Pentaerythritol-tetrakis-phenol-propionate		38	1000	0,038			0,038	1	P	O
196	Block polymers (***)		100	5000	0,02			0,02	1	P	N
197	Denatonium benzoate		13	5000	0,0026			0,0026	1	O	O
198	Succinate		374	10000	0,0374			0,0374	0,05	R	O
199	Polyaspartic acid		528	1000	0,528			0,528	0,05	R	N
200	Xylene Sulphonate		230	1000	0,23	31	100	0,31	0,5	I	N
201	Proteinhydrolyzates, wheatgluten		113	5000	0,023			0,023	0,05	R	O
202	Fatty acid, C ₆₋₁₂ methyl ester		21	10000	0,0021			0,0021	0,05	R	O
203	Mn-Saltren (CAS 61007-89-4)		39	1000	0,039	4,3	100	0,043	0,5	I	O
204	Tri-Sodium methylglycine diacetat		100	1000	0,1	16,7	50	0,334	0,05	R	O

Insoluble inorganic

Inorganic ingredient with very low, or no ability to dissolve in water.

(*) If no acceptable chronic toxicity data was found, these columns are empty. In that case TF(chronic) is defined as equal to TF(acute)

(**) As a general rule licence applicants must use the data on the list. Perfumes and dyes are exceptions. If toxicity data is submitted by the licence applicant the submitted data shall be used to calculate the TF and determine the degradability. If not, the values on the list shall be used.

(***) The applicants data on aerobic degradability of DID no. 196 Block polymers will be accepted after presentation of test-report.

(#) Due to a lack of toxicity results the TF has been calculated as an average of the values of C 12/14 Alkyl sulphate (AS) and C 16/18 Alkyl sulphate (AS).

(§) 5-Chloro-2-Methyl-4-isothiazolin-3-one and 2-Methyl-4-isothiazolin-3-one
in mixture 3:1

List of abbreviations:

SF(acute)	Safety factor for acute toxicity.
TF(acute)	Toxicity factor based on acute toxicity on aquatic organisms.
SF(chronic)	Safety factor for chronic toxicity.
TF(chronic)	Toxicity factor based on chronic toxicity on aquatic organisms.
DF	Degradation factor
Aerobic degradation:	
R	Readily biodegradable according to OECD guidelines.
I	Inherently biodegradable according to OECD guidelines.
P	Persistent. The ingredient has failed the test for inherent biodegradability.
O	The ingredient has not been tested.
NA	Not applicable

Anaerobic degradation:

Y	Biodegradable under anaerobic conditions.
N	Not biodegradable under anaerobic conditions.
O	The ingredient has not been tested.
NA	Not applicable